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(54) Title: POLYMERS OF A HYDROPHOBIC NATURE, FILLED WITH STARCH COMPLEXES

(57) Abstract

Hydrophobic polymers incompatible with starch containing, as a filler, a starch complex dispersed in the polymer matrix in the form of particks with numeric mean dimension of less than 3 microns, bound to the polymer matrix by coupling agents containing groups compatible with the matrix and with the complex, in which the starch complex is characterized by second-derivative IR absorption in the region of 340-952 cm⁻¹ are described or wherein the starch complex is bound to the polymeric matrix through reactive groups contained in the complex capable of being fixed to the polymeric matrix. The starch complex in the case of biodegradate polymers such as the aliphatic or aliphatic aromatic polyesters is formed with complexing agents different from the polymer forming the matrix and from EVOH copolymers.

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